UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,543	11/07/2005	John Donnelly	PP019844.0003	4724
	7590 02/19/200 ACCINES AND DIAC		EXAM	IINER
INTELLECTU. P.O. BOX 8097	L PROPERTY R338 BOESEN, AGNIESZKA		GNIESZKA	
Emeryville, CA			PP019844.0003 4724  EXAMINER  BOESEN, AGNIESZKA  ART UNIT PAPER NUMBER  1648	PAPER NUMBER
•				
			MAIL DATE	DELIVERY MODE
			02/19/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Antique Comments	10/530,543	DONNELLY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Agnieszka Boesen	1648			
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	th the correspondence address -	-		
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAII  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communi  - If NO period for reply is specified above, the maximum statute  - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNION CARD ATE OF THIS COMMUNION CARD THE STATE OF THIS COMMUNION CARD ATE OF THIS COMMUNION CARD AND A COMMUNION CARD ATE OF THIS COMMUNICATION CARD AND CARD ATE OF THIS COMMUNICATION CARD AND CARD	CATION.  reply be timely filed  ITHS from the mailing date of this communica  BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed	on 19 November 2007				
	This action is non-final.				
3) Since this application is in condition for	· <del></del>	ers, prosecution as to the merits	s is		
closed in accordance with the practice	•	• •			
Disposition of Claims					
4)⊠ Claim(s) <u>1-39</u> is/are pending in the app	olication				
4a) Of the above claim(s) is/are					
5) Claim(s) is/are allowed.	minaram nom concideration.				
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-39 are subject to restriction	and/or election requirement				
, , , , ,	and/or olookon roquiromoni.				
Application Papers	_				
9)☐ The specification is objected to by the E					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection	<del>-</del> , , , , , , , , , , , , , , , , , , ,	• •			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to b	y the Examiner. Note the attached	d Office Action or form PTO-152	•		
Priority under 35 U.S.C. § 119					
	ocuments have been received. In the contract of the contract o	pplication No received in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	-948) Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application 			

Art Unit: 1648

## **DETAILED ACTION**

Applicant's response filed November 19, 2007 to the restriction requirement of August 1, 2007 is acknowledged. Upon further consideration, the restriction requirement of August 1, 2007 is vacated and a new restriction requirement is set forth. Any inconvenience is regretted.

Applicant's preliminary amendment filed November 7, 2005 is acknowledged and has been entered. Claims 1-39 are pending and are subject to the following restriction.

The Office notes that claims 5, 6, 10, 13, 31, 32, 35, and 38, refer to particular Tables in the Specification. Applicants are remained that where possible, claims are to be complete in themselves. Incorporation by reference to a specific figure or table "is permitted only in exceptional circumstances where there is no practical way to define the invention in words and where it is more concise to incorporate by reference than duplicating a drawing or table into the claim MPEP § 2173.05(s). It is suggested that the claims be amended to recite the limitations with regard to the compositions from the Tables in the Specification.

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-6, drawn to an HIV DNA vaccine, comprising a nucleic acid expression vector comprising HIV **Gag**-encoding sequence, and PLG.

Group II, claims 1-6, drawn to an HIV DNA vaccine, comprising a nucleic acid expression vector comprising at least one HIV **Env**-encoding sequence, and PLG.

Group III, claim 7-13, drawn to an HIV vaccine composition comprising oligomeric **gp140**.

Group IV, claims 14 and 28-38 drawn to an HIV vaccine comprising HIV Gag DNA, and HIV Env-encoding sequence, and oligomeric gp140, and PLG and a pharmaceutically acceptable excipient.

Group V, claims 15-22, and 39 drawn to a method of generating an immune response in a subject comprising administering a vaccine comprising HIV Gag- or Env-encoding sequence, and PLG and a vaccine comprising oligomeric gp140.

Group VI, claims 23, 24, and 27 drawn to a method of making oligomeric HIV Env gp140 proteins comprising introducing a nucleic acid encoding gp140 into a host cell, culturing the host cells and isolating oligomeric gp140.

Group VII, claims 25 and 26, drawn to a method of making HIV DNA vaccine comprising combining a nucleic acid expression vector with aseptic PLG microparticles.

Art Unit: 1648

This application contains claims directed to more than one species of the generic

invention. These species are deemed to lack of unity of invention because they are not so linked

as to form a single general inventive concept under PCT Rule 13.1. If either group I or II is

elected Applicant is required to elect one species of vaccine composition.

A) Vaccine composition in Table 1, or

B) Vaccine composition in Table 2.

If either group III or IV is elected Applicant is required to elect one species of vaccine

composition.

C) Vaccine composition in Table 3, or

D) Vaccine composition in Table 11.

If group IV is elected Applicant is required to elect one species of vaccine composition

component HIV Env DNA.

E) Vaccine composition component in Table 1, or

F) Vaccine composition component in column 2 of Table 9.

If group IV is elected Applicant is required to elect one species of vaccine composition

component HIV Gag DNA.

E) Vaccine composition component in Table 2, or

F) Vaccine composition component in column 2 of Table 9.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for

prosecution on the merits to which the claims shall be restricted if no generic claim is finally

held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the

species that is elected consonant with this requirement, and a listing of all claims readable

thereon, including any claims subsequently added. An argument that a claim is allowable or that

all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of

claims to additional species which depend from or otherwise require all the limitations of an

allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election,

applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

The inventions listed in groups I, II, III, IV, V, VI and VII do not relate to a single

general inventive concept under PCT Rule 13.1 because they lack the same or corresponding

special technical features for the following reasons: the special technical feature of the claimed

invention is the HIV DNA vaccine composition comprising at least one HIV Gag- or Env-

encoding sequence and PLG, or oligomeric gp-140. zur Megede et al. (US Patent 7,211,659 B2) disclose HIV DNA vaccine composition comprising HIV Gag- or Env-encoding sequence and PLG, or oligomeric gp-140 (see column 2, lines 62-67, and column 34, lines 44-67).

Since Applicant's invention does not contribute a special technical feature when viewed over the prior art they do not have a single inventive concept and thus the claims lack unity of invention. Therefore, the instant invention lacks Unity of Invention and restriction is set forth as it applies to U.S. practice.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

## Notice of Possible Rejoinder

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully

Art Unit: 1648

examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agnieszka Boesen whose telephone number is 571-272-8035. The examiner can normally be reached on Monday -Friday 9:00 AM to 5:30 PM.

Art Unit: 1648

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Agnieszka Boesen, Ph.D./ Examiner, Art Unit 1648

/Stacy B Chen/ Primary Examiner, Art Unit 1648